

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A liquid crystal display device comprising:
 - a substrate;
 - a first conductive layer and a pad layer on the substrate, wherein the first conductive layer and the pad layer are patterned from the same conductive layer;
 - a first insulating layer on the substrate, the first conductive layer and the pad layer, the first insulating layer having a contact hole exposing a portion of the pad layer;
 - a semiconductor layer on the first insulating layer;
 - a second conductive layers on the semiconductor layer;
 - a third conductive layers on the second conductive layers;
 - a second insulating layer on the third conductive layers and the first insulating layer, the second insulating layer having a first contact hole exposing a portion of the third conductive layers, and a second contact hole exposing the portion of the pad layer through the first and the second insulating layer;
 - a first adhesion conductive layer located only on the area of the third conductive layer exposed by the first contact hole portion of a third conductive layer and a second adhesion conductive layer located only on the area of the pad layer exposed by the second contact hole on portion of the pad layer, wherein the first adhesion conductive layer is directly contacted with the third conductive layer and the second adhesion conductive layer is directly contacted with the pad layer;
 - a fourth conductive layer on the second insulating layer and the first adhesion conductive layer and electrically contacting a portion of a third conductive layer;
 - a fifth conductive layer on the second insulating layer and the second adhesion conductive layer and electrically contacting the pad layer,
- wherein the first and second adhesion conductive layers are respectively contained within the first contact hole and in the second contact hole.

wherein the width of the first adhesion conductive layer is identical with the width of the first contact hole and the width of the second adhesion conductive layer is identical with the width of the second contact hole.

2. (Previously Presented) The liquid crystal display device according to claim 1, wherein the first conductive layer and the pad layer include a metal.

3. (Original) The liquid crystal display device according to claim 2, wherein the metal includes Al.

4. (Previously Presented) The liquid crystal display device according to claim 1, wherein the second conductive layers include an impurity doped semiconductor.

5. (Previously Presented) The liquid crystal display device according to claim 4, wherein the third conductive layers have first and second parts spaced from each other and the semiconductor is etched between the first and second parts of the third conductive layers.

6. (Previously Presented) The liquid crystal display device according to claim 1, wherein the third conductive layers include a metal.

7. (Original) The liquid crystal display device according to claim 1, wherein the fourth conductive layer includes a transparent electrode.

8. (Previously Presented) The liquid crystal display device according to claim 1, wherein the first and second adhesive conductive layers include a metal.

9. (Original) The liquid crystal display device according to claim 8, wherein the metal is selected from the group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

10. (Canceled)

11. (Withdrawn) The liquid crystal display device comprising:

a substrate having first and second regions;
a thin film transistor on the first region of the substrate;
a pad portion on the second region of the substrate, the pad portion including:
a first conductive layer on the substrate;
a first insulating layer on the first conductive layer;
a second insulating layer on the first insulating layer, the second insulating layer having a hole exposing a portion the first conductive layer;
a second conductive layer on the portion of the first conductive layer and contacting the first conductive layer; and
a third conductive layer on the second insulating layer and contacting the second conductive layer through the hole in the second insulating layer.

12. (Withdrawn) The liquid crystal display device according to claim 1, wherein the first conductive layer includes a metal.

13. (Withdrawn) The liquid crystal display device according to claim 12, wherein the metal includes Al.

14. (Withdrawn) The liquid crystal display device according to claim 12, wherein the third conductive layer includes a transparent electrode.

15. (Withdrawn) The liquid crystal display device according to claim 12, wherein the second conductive layer includes a metal.

16. (Withdrawn) The liquid crystal display device according to claim 15, wherein the metal is selected from the group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

17. (Withdrawn) A liquid crystal display device comprising:

a substrate having first and second regions;
a switching device on the first region of the substrate, the switching device including:
a first conductive layer on the substrate;
a first insulating layer on the first conductive layer;

a second conductive layer on the first insulating layer;
a third conductive layer on the second conductive layer;
a second insulating layer on the third conductive layer, the second insulating layer having a first hole exposing a portion of the third conductive layer;
a fourth conductive layer on the second insulating layer and electrically contacting the third conductive layer; and
a fifth conductive layer between the third conductive layer and the fourth conductive layer; and
a pad portion on the second region of the substrate, the pad portion including:
the first conductive layer on the substrate;
the first insulating layer on the first conductive layer;
the second insulating layer on the first insulating layer, the second insulating layer having a second hole exposing a portion the first conductive layer;
the fifth conductive layer on the portion of the first conductive layer and contacting the first conductive layer; and
the fourth conductive layer on the second insulating layer and contacting the fifth conductive layer through the second hole in the second insulating layer.

18. (Withdrawn) The liquid crystal display device according to claim 17, wherein fifth conductive layer is selected from a group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

19. (Withdrawn) A liquid crystal display device comprising:
a substrate;
a gate electrode on the substrate;
an insulating layer on the gate electrode;
a semiconductor layer on the insulating layer;
an ohmic contact layer on the semiconductor layer;
source and drain electrodes on the ohmic contact layer;
a protective layer on the source and drain electrodes, the protective layer having a hole exposing a portion of one of the source and drain electrodes;
a conductive electrode on the protective layer and electrically contacting the one of the source and drain electrodes; and

a contact layer between the one of the source and drain electrodes and the conductive electrode.

20. (Withdrawn) The liquid crystal display device according to claim 19, further comprising a pad portion on the substrate, the pad portion including:

a conductive pad on the substrate;

the insulating layer on the conductive pad;

the protective layer on the insulating layer, the protective layer having a second hole over the pad;

the contact layer contacting the pad through the second hole; and

the conductive electrode contacting the contact layer through the second hole.

21. (Withdrawn) The liquid crystal display device according to claim 19, wherein the contact layer is selected from a group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

22. (Withdrawn) A method of fabricating a liquid crystal display device comprising:

forming a switching device on a first region of a substrate, the switching device including:

a first conductive layer on the substrate;

a first insulating layer on the first conductive layer;

a second conductive layer on the first insulating layer;

a third conductive layer on the second conductive layer;

a second insulating layer on the third conductive layer, the second insulating layer having a first hole exposing a portion of the third conductive layer;

a fourth conductive layer on the second insulating layer and electrically contacting the third conductive layer; and

a fifth conductive layer between the third conductive layer and the fourth conductive layer; and

forming a pad portion on a second region of the substrate, the pad portion including:

the first conductive layer on the substrate;

the first insulating layer on the first conductive layer;

the second insulating layer on the first insulating layer, the second insulating layer having a second hole exposing a portion of the first conductive layer;

the fifth conductive layer on the portion of the first conductive layer and contacting the first conductive layer; and

the fourth conductive layer on the second insulating layer and contacting the fifth conductive layer through the second hole in the second insulating layer.

23. (Withdrawn) The method according to claim 22, wherein fifth conductive layer is selected from a group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

24. (Withdrawn) A method of forming a liquid crystal display device comprising:

forming a gate electrode on a substrate;

forming an insulating layer on the gate electrode;

forming a semiconductor layer on the insulating layer;

forming an ohmic contact layer on the semiconductor layer;

forming source and drain electrodes on the ohmic contact layer;

forming a protective layer on the source and drain electrodes, the protective layer having a hole exposing a portion of one of the source and drain electrodes;

forming a conductive electrode on the protective layer and electrically contacting the one of the source and drain electrodes; and

forming a contact layer between the one of the source and drain electrodes and the conductive electrode.

25. (Withdrawn) The method according to claim 24, further comprising forming a pad portion on the substrate, the pad portion including:

a conductive pad on the substrate;

the insulating layer on the conductive pad;

the protective layer on the insulating layer, the protective layer having a second hole over the pad;

the contact layer contacting the pad through the second hole; and

the conductive electrode contacting the contact layer through the second hole.

26. (Withdrawn) The method according to claim 25, wherein the contact layer is selected from a group consisting of Mo, Ni, Cr, Cu, Ag and Pb.

27. (Previously Presented) The liquid crystal display device according to claim 1, wherein the first conductive layer and the pad layer are formed of a single metal and the third conductive layers are formed of a single metal.

28. (Cancelled)